

METHOD AND SYSTEM FOR TRANSMISSION
AND FREQUENCY DOMAIN EQUALIZATION FOR
WIDEBAND CDMA COMMUNICATIONS

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ABSTRACT OF THE DISCLOSURE

- The invention provides a method and system for transmission and
- 10 frequency domain equalization for wideband CDMA communications by providing at least one spread sequence portion, and inserting a cyclic redundancy to the spread sequence to form a transmitted baseband sequence. The invention further provides a method and system for converting a plurality of receive samples from at least one spread sequence portion into a plurality of frequency
- 15 domain samples, determining a plurality of frequency domain equalization weights for the frequency domain samples, and determining a time domain signal estimate based on the frequency domain equalization weights and frequency domain samples.

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